



## Remix Mini Teardown

Let's discover what really lies beneath this tiny PC Android signed Jide, the Mini Remix.

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# Remix Mini



# TEARDOWN

## INTRODUCTION

Funded August 29, 2015 in the amount of \$ 1,647,155 on the \$ 50,000 requested, The Remix Mini is as the smallest PC running Android in the world and the first of its kind.

With its connectivity, OS home, and its tariff, the mini Remix has it all, at least in appearance. more ready explore how engineers at Jide designed this strange roller ...

And as he made very fine in this month of December 2015, this entire Teardown take place outdoors :)

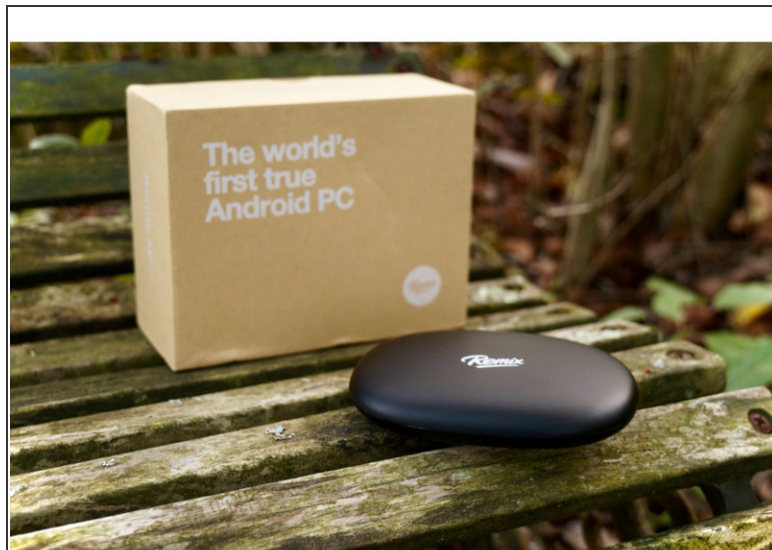
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### TOOLS:

- [Round Handle Spudger](#) (1)
  - [Heavy-Duty Spudger](#) (1)
  - [Phillips #00 Screwdriver](#) (1)
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## Step 1 — introduction



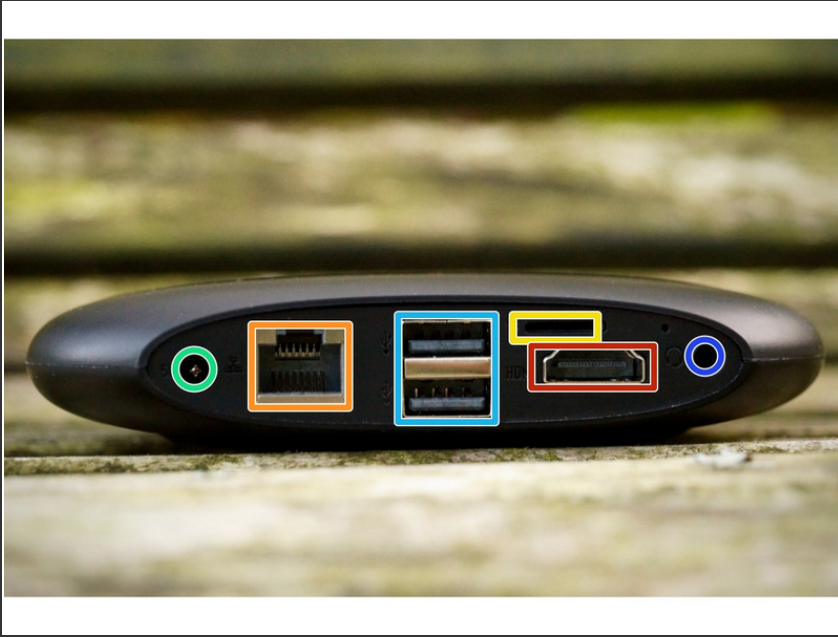
- ❗ Strange? This is actually the word that comes to mind at the sight of this little black pebble. Behind this design to say the least unusual, there is a real cut Android configuration for web browsing, word processing, or some games.
- ❗ The box is made of recycled cardboard, classic view of current trends, but that's always fun.

## Step 2



- i** On top of the device, we find the logo of the PC, "Remix", which also serves as power-on button, via a touch sensor placed under the logo.
- i** On the bottom, we find the usual information (camera model, legal certifications, serial number), all surrounded by a rubber pad used to maintain the device.

## Step 3



- i** At the rear of the device, we find all the connections:
- Two USB 2.0 ports
  - Port Ethernet
  - HDMI supports Full HD resolution 1920 x 1080 and decoding its multichannel
  - Micro SD card slot supporting up to 64GB
  - Jack Stereo Headphone output 3.5 mm headphone that supports the microphone.
  - 5V 2A power connector
- i** The mini remix posing as a turnkey solution, the 5V power is supplied in the box.



## Step 4



**i** It is time to inspect the internal content of the beast.

- First, it is necessary to remove part of the rubber pad to let appear the two screws of the case.
- Using the plastic spatula invincible (blue moreover), we must now separate the upper and lower casing.

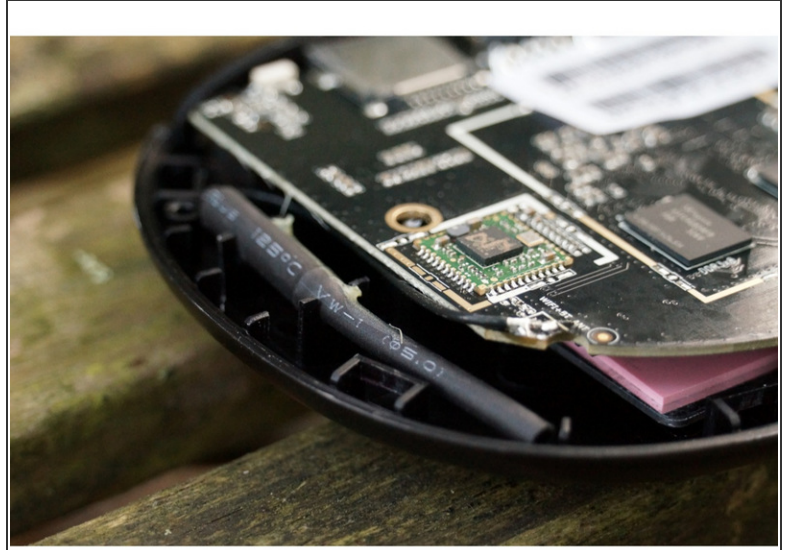
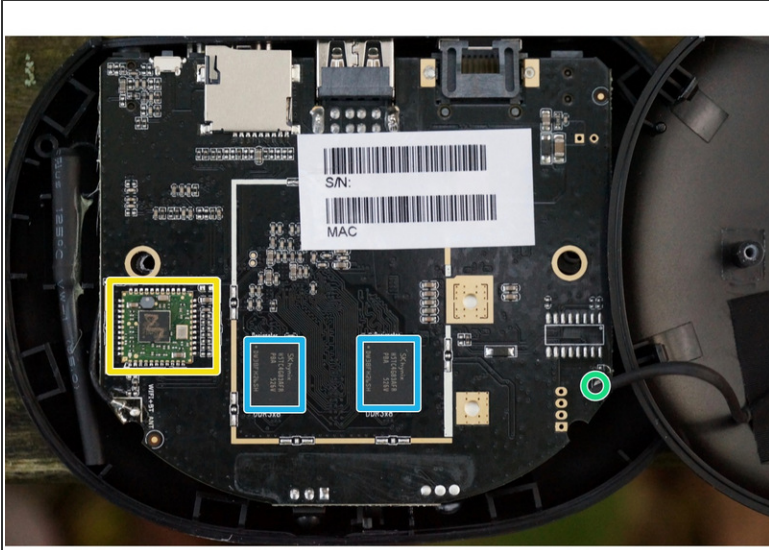
## Step 5



**!** Be careful not to tear the connector Power sensor, located on the top of the unit and connected to the motherboard by a cable.

- Once completely separate case, it only remains to gently open to let appear the first components.

## Step 6



**i** Analyze the first visible components on the motherboard:

- DDR3L SDRAM modules Sk Hynix 4Gb each (512 MB per module).
- The controller Wifi b / g / n and Bluetooth 4.0
- The power button connector (soldered).

**i** The antenna WiFi is on the side of the unit.

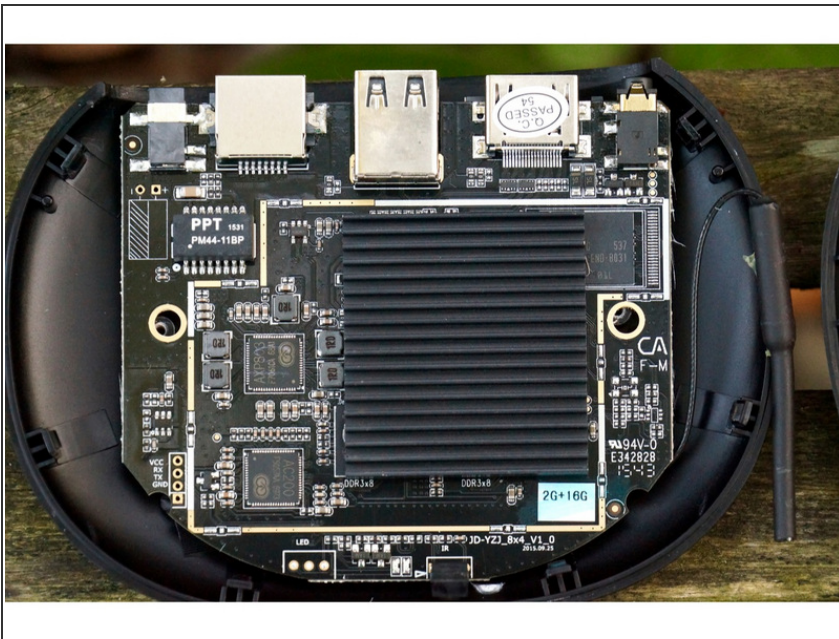


## Step 7



- i now return the motherboard, to watch the rest of the components:
- i First, it is noted that the lower part (right), contains a metal workpiece and a thermal pad. If it is removed, we see that the device is noticeably lighter. This piece, in addition to serve as an additional heat sink, has surely been selected for weighing the device.

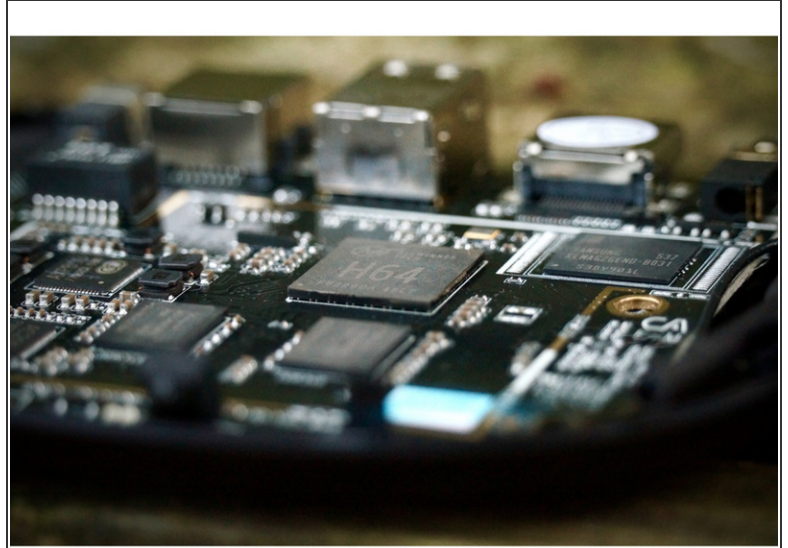
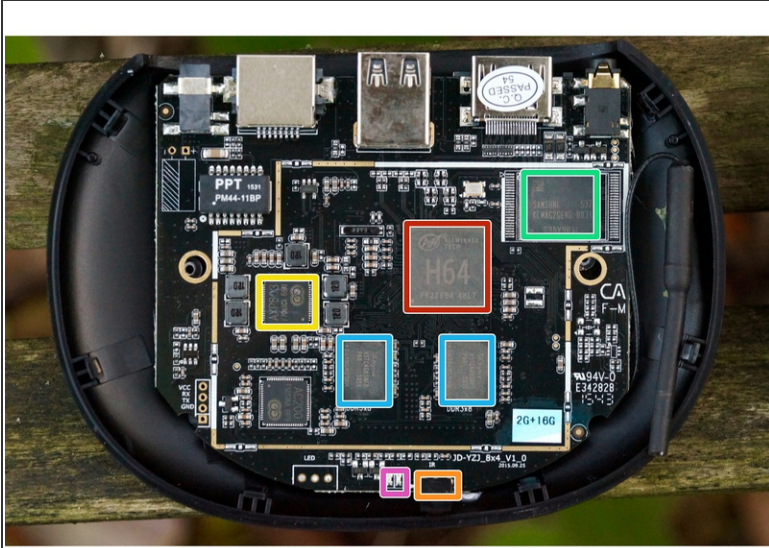
## Step 8



- On the motherboard, there is significant passive radiator, surely to dissipate the heat generated by the processor.
- i Integrating such a sink is a good thing, mobile components that still tends to heat. This will not only extend its life, but above all to avoid him frequency throttling due to too high a temperature.



## Step 9



**i** Time to components placed on the motherboard:

- Processor Allwinner H64 based on the architecture Cortex A53 quad-core 1.2 GHz
- Samsung 16GB eMMC Flash storage
- DDR3L SDRAM modules Hynix Sk 4 Gb each (512 MB per module). The total RAM is thus increased to 2GB
- USB controller AXP 803
- infrared Module
- Activity LED

**i** It was not possible to find information about the remaining two modules, namely PM44-11BP (surely the audio amplifier), and the AC200.

## Step 10 — conclusion



- ① In sum, this small PC Android discusses the main features of a phone mid-range, but with some additional options (USB, HDMI, Ethernet, Desktop OS ...). In addition, he managed the feat to bring together all at a very aggressive price (\$ 70).
- ① We will not apply note repair this type of camera is not really designed to be upgraded or repaired.

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